IN THE CLAIMS

For the convenience of the Examiner, all pending claims of the present Application are shown below in numerical order whether or not an amendment has been made and applying the revised amendment practice of 37 CFR 1.121 – IFW Final Rule.

1.   (**Currently Amended**) A communication system, comprising:

a central processor ~~operable to transmit data packets and control packets~~;

a **signal processor** ~~transmit/receive module operable to receive the data packets and the control packets and transmit the data packets and control packets to one of a plurality of terminal units~~;

a **first** communication bus ~~coupling~~ **forming a first path of communication between** the central processor ~~to~~ **and** the ~~transmit/receive module~~ **signal processor** ~~for communication of the data packets and the control packets~~; ~~and~~

a second communication bus forming a second path of communication between the central processor and the signal processor;

~~a plurality of terminal unit control modules coupled with the central processor, each terminal unit control module operable to control at least partially the operation of a respective one of the plurality of terminal units~~

wherein the central processor is operable to transmit and receive data packets using the first communication bus; and

wherein the central processor is further operable to transmit and receive control packets using the second communication bus.

2.   **(Currently Amended)**   The communication system of Claim 1, further comprising:

a plurality of terminal units;

a plurality of terminal unit control modules coupled with the central processor, each terminal unit control module operable to control at least partially the operation of a respective one of the plurality of terminal units;

a script module coupled with at least one of the terminal unit control modules; and

wherein the script module is operable to determine the content of the control packets.

3. (Currently Amended) ~~The communication system of Claim 2,~~ A communication system, comprising:

a central processor operable to transmit data packets and control packets;

a transmit/receive module operable to receive the data packets and the control packets and transmit the data packets and control packets to one of a plurality of terminal units;

a communication bus coupling the central processor to the transmit/receive module for communication of the data packets and the control packets;

a plurality of terminal unit control modules coupled with the central processor, each terminal unit control module operable to control at least partially the operation of a respective one of the plurality of terminal units;

a script module coupled with at least one of the terminal unit control modules;

wherein the script module is operable to determine the content of the control packets; and

wherein the script module defines a plurality of states available to at least one of the terminal units, and the control packets include control information corresponding with at least one of the states.

4. (Currently Amended) ~~The communication system of Claim 2,~~ A communication system, comprising:

a central processor operable to transmit data packets and control packets;

a transmit/receive module operable to receive the data packets and the control packets and transmit the data packets and control packets to one of a plurality of terminal units;

a communication bus coupling the central processor to the transmit/receive module for communication of the data packets and the control packets;

a plurality of terminal unit control modules coupled with the central processor, each terminal unit control module operable to control at least partially the operation of a respective one of the plurality of terminal units;

a script module coupled with at least one of the terminal unit control modules;

wherein the script module is operable to determine the content of the control packets; and

wherein the script module defines a plurality of subroutines available to at least one of the terminal units, and the control packets include control information corresponding with at least one of the subroutines.

5. (Currently Amended) The communication system of Claim 1, further comprising:

a plurality of terminal units;

a plurality of terminal unit control modules coupled with the central processor, each terminal unit control module operable to control at least partially the operation of a respective one of the plurality of terminal units;

a terminal unit behavior script module coupled with at least one of the terminal unit control modules, the terminal unit behavior script module defining a plurality of subroutines available to at least one of the terminal units; and

wherein the control packets include information corresponding with at least one of the subroutines.

6.   **(Currently Amended)**   The communication system of Claim 1, further comprising:

> **a plurality of terminal units;**

> **a plurality of terminal unit control modules coupled with the central processor, each terminal unit control module operable to control at least partially the operation of a respective one of the plurality of terminal units;**

> a terminal unit subroutine library coupled with at least one of the terminal unit control modules, the terminal unit subroutine library defining a plurality of commands associated with subroutines available to at least one of the terminal units; and

> wherein the control packets include information corresponding with at least one of the commands.

7.   **(Currently Amended)**   The communication system of Claim 1, further comprising:

> **a plurality of terminal units;**

> **a plurality of terminal unit control modules coupled with the central processor, each terminal unit control module operable to control at least partially the operation of a respective one of the plurality of terminal units;**

> a terminal unit attribute repository coupled with the terminal unit control modules; and

> wherein the attribute repository includes attributes associated with at least one of the terminal units.

8.   **(Currently Amended)** The communication system of Claim 7, wherein the attributes include a speed dial telephone number, a memory key or a personal phone book entry.

9. **(Currently Amended)** The communication system of Claim 1, further comprising:

a ~~voice/data~~ <u>voice and data</u> module coupled with the central processor; and

wherein the ~~voice/data~~ <u>voice and data</u> module is operable to determine the content of the data packets.

10. **(Canceled)**

11.   **(Currently Amended)** A communication system, comprising:

a central processor operable to transmit data packets and control packets;

a **signal processor** ~~transmit/receive module~~ operable to receive the data packets and the control packets and transmit the data packets and control packets to one of a plurality of terminal units;

a first communication bus ~~coupling~~ **forming a first path of communication between** the central processor and the **signal processor** ~~transmit receive module~~ for communication of the data packets; and

a second communication bus ~~coupling~~ **forming a second path of communication between** the central processor and the **signal processor** ~~transmit/receive module~~ for communication of the control packets.

12.   **(Original)** The communication system of Claim 11, further comprising a plurality of terminal unit control modules coupled with the central processor, each terminal unit control module operable to control the operation of a corresponding one of the terminal units.

13.   **(Original)** The communication system of Claim 11, further comprising:

a script module coupled with at least one of the terminal unit control modules; and

wherein the script module is operable to determine the content of the control packets.

14.   **(Original)** The communication system of Claim 13, wherein the script module defines a plurality of states available to at least one of the terminal units, and the control packets include control information corresponding with at least one of the states.

15.   **(Original)** The communication system of Claim 13, wherein the script module defines a plurality of subroutines available to at least one of the terminal units, and the control packets include control information corresponding with at least one of the subroutines.

16.   **(Original)** The communication system of Claim 11, further comprising:

a terminal unit behavior script module coupled with at least one of the terminal unit control modules, the terminal unit behavior script module defining a plurality of subroutines available to at least one of the terminal units; and

wherein the control packets include information corresponding with at least one of the subroutines.

17.   **(Original)** The communication system of Claim 11, further comprising:

a terminal unit subroutine library coupled with at least one of the terminal unit control modules, the terminal unit subroutine library defining a plurality of commands associated with subroutines available to at least one of the terminal units; and

wherein the control packets include information corresponding with at least one of the commands.

18.   **(Original)** The communication system of Claim 11, further comprising:

a terminal unit attribute repository coupled with the terminal unit control modules; and

wherein the attribute repository includes attributes associated with at least one of the terminal units.

19.   **(Currently Amended)** The communication system of Claim 18, wherein the attributes include a speed dial telephone number, ~~a memory key~~ or a personal phone book entry.

20.   **(Currently Amended)**   The communication system of Claim 11, further comprising:

a ~~voice/data~~ <u>voice and data</u> module coupled with the central processor; and

wherein the ~~voice/data~~ <u>voice and data</u> module is operable to determine the content of the data packets.

21.   **(Canceled)**

22.   **(Currently Amended)** A terminal unit, comprising:

a printed circuit board **disposed within the terminal unit**;

a processor coupled with the printed circuit board, the processor operable to receive control packets from one of a plurality of terminal unit control modules associated with a communication system.

23.   **(Original)** The terminal unit of Claim 22, wherein the processor is further operable to receive data packets from the communication system.

24.   **(Original)** The terminal unit of Claim 22, further comprising a command interpreter coupled with the processor, the command interpreter operable to receive commands associated with the control packets, and to control hardware components of the terminal unit.

25.   **(Currently Amended)** The terminal unit of Claim 22, further comprising:

a ~~compressor/decompressor~~ **compressor and decompressor** module coupled with the processor and operable to receive data packets from the processor and convert the data packets into voice packets;

a codec coupled with the ~~compressor/decompressor~~ **compressor and decompressor**, the codec operable to receive voice packets from the ~~compressor/decompressor~~ **compressor and decompressor** for transmission to a speaker associated with the terminal unit.

26.   **(Currently Amended)** A method, comprising:

transmitting first control packets from a first terminal unit control module **coupled with a central processor** to a ~~transmit/receive module~~ **signal processor over a first communication bus, wherein the first communication bus forms a first path of communication between the central processor and the signal processor**;

transmitting second control packets from a second terminal unit control module **coupled with the central processor** to the ~~transmit/receive module~~ **signal processor over the first communication bus**;

the first and second terminal unit control modules operable to control at least partially the operation of **a** first and **a** second terminal units, respectively; and

transmitting data packets from ~~a~~ **the central** processor to the ~~transmit/receive module~~ **signal processor over a second communication bus, wherein the second communication bus forms a second path of communication between the central processor and the signal processor**.

27.   **(Currently Amended)** The method of Claim 26, further comprising transmitting at least a portion of the control packets from the ~~transmit/receive module~~ **signal processor** to the first terminal unit.

28.   **(Canceled)**

29.   **(Original)** The method of Claim 26, further comprising transmitting information regarding the content of the first control packets from a script module to the first terminal unit control module.

30.   **(Original)** The method of Claim 29, further comprising transmitting terminal unit subroutine identifiers from a terminal unit behavior script database to the script module.

31.   **(Original)** The method of Claim 29, further comprising transmitting at least one subroutine from a terminal unit subroutine module to the script module.

32.   **(Currently Amended)** The method of Claim 26, further comprising:

coupling a terminal unit attribute repository to the **central** processor; and

storing information regarding attributes of the first terminal unit at the terminal unit attribute repository.

33.   **(Currently Amended)**   A computer readable medium encoded with a computer program operable to:

transmit first control packets from a first terminal unit control module **coupled with a central processor** to a ~~transmit/receive module~~ **signal processor over a first communication bus, wherein the first communication bus forms a first path of communication between the central processor and the signal processor**;

transmit second control packets from a second terminal unit control module **coupled with the central processor** to the ~~transmit/receive module~~ **signal processor over the first communication bus**;

the first and second terminal unit control modules operable to control at least partially the operation of **a** first and **a** second terminal units, respectively; and

transmit data packets from ~~a~~ **the central** processor to the ~~transmit/receive module~~ **signal processor over a second communication bus, wherein the second communication bus forms a second path of communication between the central processor and the signal processor**.

34.   **(Currently Amended)** The computer readable medium of Claim 33, wherein the computer program is further operable to transmit at least a portion of the control packets from the ~~transmit/receive module~~ **signal processor** to the first terminal unit.

35.   **(Original)**   The computer readable medium of Claim 33, wherein the computer program is further operable to transmit information regarding the content of the first control packets from a script module to the first terminal unit control module.

36.   **(Currently Amended)** A system, comprising:

means for transmitting first control packets from a first terminal unit control module **coupled with a central processor** to a ~~transmit/receive module~~ **signal processor over a first communication bus, wherein the first communication bus forms a first path of communication between the central processor and the signal processor**;

means for transmitting second control packets from a second terminal unit control module **coupled with the central processor** to the ~~transmit/receive module~~ **signal processor over the first communication bus**;

the first and second terminal unit control modules operable to control at least partially the operation of <u>a</u> first and <u>a</u> second terminal units, respectively; and

means for transmitting data packets from ~~a~~ **the central** processor to the ~~transmit/receive module~~ **signal processor over a second communication bus, wherein the second communication bus forms a second path of communication between the central processor and the signal processor**.

37.   **(Currently Amended)** The system of Claim 36, further comprising means for transmitting at least a portion of the control packets from the ~~transmit/receive module~~ **signal processor** to the first terminal unit.

38.   **(Original)**   The system of Claim 36, further comprising means for transmitting information regarding the content of the first control packets from a script module to the first terminal unit control module.

39.   **(New)** The communication system of Claim 1, further comprising:

a plurality of wireless telephone handsets;

wherein the signal processor comprises a radio frequency transmitter and receiver operable to transmit first data packets and first control packets to the plurality of wireless telephone handsets, and to receive second data packets and second control packets from the plurality of wireless telephone handsets;

wherein the central processor comprises:

a voice and data module operable to receive asynchronous data packets from an external network over a Digital Subscriber Line (DSL) connection, and convert the asynchronous data packets to synchronous data packets for transmission to the signal processor over the first communication bus;

a plurality of wireless telephone handset control modules, each operable to control, at least partially, the operation of a respective one of the plurality of wireless telephone handsets;

wherein each of the plurality of wireless telephone handset control modules comprise:

a wireless telephone handset subroutine library operable to define a plurality of commands associated with subroutines available to at least one of the plurality of wireless telephone handsets; and

a script module operable to:

define a plurality of states available to at least one of the plurality of wireless telephone handsets;

define a plurality of subroutines available to at least one of the plurality of wireless telephone handsets; and

determine the content of the first control packets such that the first control packets include control information corresponding with at least one of the states or subroutines;

a wireless telephone handset attribute repository coupled with the wireless telephone handset control modules, wherein the wireless telephone handset attribute repository is operable to store attributes associated with at least one of the plurality of wireless telephone handsets; and

a wireless telephone handset behavior script database coupled with the wireless telephone handset control modules, wherein the wireless telephone handset behavior script database is operable to store a plurality of subroutines available to at least one of the plurality of wireless telephone handsets; and

wherein the plurality of wireless telephone handsets each comprise:

a printed circuit board; and

a handset processor coupled with the printed circuit board, the handset processor operable to receive the first control packets from one of the plurality of wireless telephone handset control modules.

40.   **(New)**   The communication system of Claim 1, wherein the first communication bus is a time-division multiplexed bus.

41.   **(New)**   The communication system of Claim 40, wherein the second communication bus is a Host Port Interface (HPI) bus.

42.   **(New)**   The communication system of Claim 40, wherein the second communication bus is an asynchronous communication bus.

43.   **(New)**   The communication system of Claim 40, wherein the second communication bus is operable to transmit control packets between the central processor and a digital signal processor (DSP).

44.   **(New)**   The communication system of Claim 1, wherein each of the central processor, the signal processor, the first communication bus, and the second communication bus are disposed within a common enclosure of a single device.

45.   **(New)**   The communication system of Claim 44, wherein the single device provides an interface between an digital subscriber line (DSL) communication network and a plurality of wireless telephone handsets.

46.   (New) The communication system of Claim 1, wherein the signal processor comprises a Digital Signal Processor (DSP).

47.   (New) The communication system of Claim 1, further comprising:

a voice and data module coupled with the central processor; and

wherein the voice and data module is operable to receive asynchronous data packets and convert the asynchronous data packets to synchronous data packets for transmission over the first communication bus.